

DOCKET FILE COPY ORIGINAL

Brett E. Miller
11608 Blossomwood Ct.
Moorpark, CA 93021
(805) 523-7312

ORIGINAL

August 25, 1994

Office of the Secretary
Federal Communications Commission
1919 M St., N.W.
Room 222
Washington, DC 20554

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AUG 26 1994

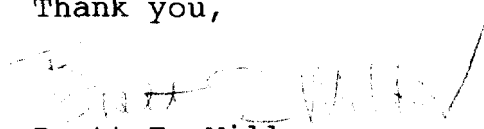
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Dear Sir/Madame:

Enclosed herewith, in original and four copies, are the comments of Brett E. Miller regarding a Notice of Proposed Rule Making, MM Docket No. 94-61, Garberville and Hydesville, California.

If there are any questions, please contact me at the above address and/or telephone number.

Thank you,


Brett E. Miller

BEM/tbh

No. of Copies rec'd 0+5
List A B C D E

**Before the
Federal Communications Commission
Washington, DC. 20554**

| | | |
|---------------------------------|---|---------------------|
| In the Matter of |) | MM Docket No. 94-61 |
| |) | |
| Amendment of Section 73.202(b), |) | RM-8464 |
| Table of Allotments, |) | |
| FM Broadcast Stations. |) | |
| (Garberville and Hydesville, |) | |
| California) |) | |
| |) | |
| |) | |

RECEIVED

AUG 26 1994

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

To: Chief, Allocations Branch

COMMENTS OF PETITIONER

I, Brett E. Miller, permittee of Station KWEO (FM), Channel 279C1, Garberville, California, respectfully submit these comments in support of the above-referenced Rule Making requesting the reallocation of Channel 279C1 from Garberville to Hydesville, California, and the modification of the construction permit to specify Hydesville as its community of license.

I hereby confirm my commitment to proceed with an application for a construction permit upon the reallocation as modified herein, and once the construction permit is granted, I will proceed promptly to construct the Station.

In its Notice of Proposed Rule Making, the Commission has requested further information regarding reception in the gain and loss areas. That information is contained in the attached Engineering Statement.

During the time between the filing of the Petition for Rule Making and the preparation of these Comments, and in the attempt to expedite first service at Hydesville, further engineering studies

have been conducted to prove coverage characteristics from a currently existing-and-available transmission site.

As a result of these studies, it has been determined that, from the existing-and-available transmission site from which to place a city grade signal over Hydesville, Channel 279C1 has an I.F. short spacing problem with station KXGO (FM), Arcata, CA. However, it has been determined that Channel 231C1 would be fully spaced from the existing-and-available transmission site, with the gain and loss figures shown in the attached Engineering Statement. Also indicated are several channels of various class of service which may be allocated to Garberville and/or the loss area, should there be an expression of interest.

Additionally, as the attached Engineering Statement indicates, coverage from the currently proposed reference coordinates for the Hydesville allocation will result in an improved, higher level of signal strength over Garberville than had been previously indicated in the Petition's proposed reference coordinates.

In summary, I hereby request that the current Petition for Rule Making be modified as follows:

1. The construction permit for Station KWEO (FM) be modified to provide for a change of community from Garberville, California, to Hydesville, California; and

2. The allocated Channel for KWEO (FM) be modified from Channel 279C1 to Channel 231C1.


The results of the above would be as follows:

| City | Channel Number | |
|-----------------|--------------------|-------------|
| | Present | Proposed |
| Garberville, CA | 216C3, 279C1, 284C | 216C3, 284C |
| Hydesville, CA | -- | 279C1 |

Conclusion

I am very desirous of perfecting the construction permit to construct Station KWEO (FM), while maximizing the utilization of spectrum, constructing the Station in a timely manner, and especially providing first aural service to the community of Hydesville. I believe the above proposal, as modified, is in the public interest. Within the loss area, there are several other channels available, should there be an expression of interest.

Respectfully submitted,


 Brett E. Miller
 11608 Blossomwood Ct.
 Moorpark, CA 93021
 (805) 523-7312

**ENGINEERING EXHIBITS
IN SUPPORT OF COMMENTS
TO NOTICE OF
PROPOSED RULE MAKING**

August 24, 1994

**Radio Station KWEO(FM)
Brett E. Miller
FCC MM Docket No. 94-61
FM Channel 231C1 □ 94.1 Megahertz
Hydesville, California**



LAWRENCE L. MORTON ASSOCIATES
1231 MESA OAKS LANE
MESA OAKS, CALIFORNIA 93436-2309
(805) 733-4275 / FAX (805) 733-4793

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| E-12 | 1990 U.S. Census Demographics For Areas Within KWEO(FM) 60 dB μ Service Contours at Garberville and Hydesville |

EXHIBIT E-1 ENGINEERING STATEMENT

The information and data contained within these Engineering Exhibits were prepared on behalf of Brett E. Miller, permittee of FM broadcast station KWEO(FM), 103.7 Megahertz, Channel 279C1, in support of comments to Notice of Proposed Rule Making, MM Docket No. 94-61, released July 5, 1994. The petitioner now requests that Channel 231C1 be allotted to Hydesville instead of Channel 279C1, and that Channel 279C1 be deleted from Garberville.

I. DISCUSSION

In paragraph four of the Notice, the Commission requested additional information from the petitioner concerning existing aural broadcast services within the proposed gain and loss areas. This report serves to address these issues by providing the requested information.

Exhibit E-2 is a map showing the KWEO(FM), BMPH-930827IE, 60 dB μ service contour at Garberville and the 60 dB μ contour from a hypothetical Class C1 facility operating at the proposed allotment reference coordinates for Hydesville. The Channel 231C1 reference coordinates are:

North Latitude: 40 degrees, 25 minutes, 12 seconds
West Longitude: 124 degrees, 05 minutes, 00 seconds

For each FM station presented in these exhibits, terrain elevation data from three to sixteen kilometers on radials spaced at five-degree azimuthal intervals starting with True North were extracted from the computerized thirty-second point elevation database version of **Elevation Data for North America**, available from the Department of Commerce, National Geophysical Data Center, National Oceanic and Atmospheric Administration. A total of 131 points along each radial were linearly interpolated according to § 73.312(d).

The height above average terrain along each of the 72 radials was computed by averaging the elevations between three and sixteen kilometers below the antenna radiation center in accordance with § 73.313(d)(3).

The locations of the 60 dB μ F(50,50) service contours were calculated according to the computer methods outlined in F.C.C. publication PB-249144, **Field Strength Calculations for TV and FM Broadcasting**. The computer methods use digitized data taken directly from the graph of § 73.333 Figure 1. Intermediate values are obtained using bivariate interpolation techniques for surface fitting.

Note that, in the Petition for Rule Making, the petitioner had used terrain data extracted from the Defense Mapping Agency three arc-second point elevation database along one-degree azimuthal intervals to determine the KWEO(FM) contours from Garberville and Hydesville. In this study, however, thirty-second terrain data were used to determine the extent of the contours

from other aural broadcast services. Therefore, for consistency, the KWEO(FM) Garberville and Hydesville contours as represented herein were determined using the thirty-second terrain database. Thus, slight differences exist in the areas and populations contained within the KWEO(FM) contours from those represented in the original petition. Exhibits E-12A and E-12B tabulate the areas and populations within the Garberville and Hydesville contours, respectively, as determined using the thirty-second terrain data.

II. LOSS AREA

A study was conducted to determine the number of AM and FM stations that provide full-time aural broadcast service to the area contained within the authorized KWEO(FM) 60 dB μ service contour at Garberville that will not be served from the Hydesville facility. Exhibit E-3 shows the extent of this proposed loss area.

Pursuant to footnote five of the Notice, full-time AM reception service is defined by the station's nighttime interference-free contour for non-Class A stations, and by the 0.5 mV/m groundwave contour for Class A stations. Exhaustive nighttime interference studies were performed for all of the full-time AM facilities within the vicinity of the authorized and proposed KWEO(FM) 60 dB μ contours to determine those AM stations that provide service to the areas.

Also studied were the 60 dB μ contours of all FM stations in the area to identify those that provide some overlap to the KWEO(FM) contours at Garberville and Hydesville. Exhibit E-8 tabulates the list of stations that provide aural broadcast reception within the proposed loss area.

Exhibit E-3 shows the authorized and proposed KWEO(FM) service contours, and the service contours of the AM and FM stations that provide aural service within the proposed loss and gain areas. Exhibits E-4A through E-4D are a series of maps showing the proposed loss area and the contours of the aural service providers. Shading is used to represent the areas that receive a specific number of aural broadcast services corresponding to the number indicated in the title block of the map. Exhibit E-6 tabulates these data and depicts the populations and areas (land and water) within the identified regions.

The results of this study indicate that the proposed change in principal community will not create any white or gray areas. In fact, all but 16 persons residing within the proposed loss area will continue to receive at least three aural reception services and over 49 percent of the population will continue to receive five or more services.

III. GAIN AREA

The same type of study was performed to determine the number of existing aural broadcast reception services within the KWEO(FM) proposed gain area. A list of aural service providers is tabulated in exhibit E-9.

Exhibits E-5A and E-5B are maps showing the areas within the proposed KWEO(FM) Hydesville contour but outside of the authorized Garberville contour that already receive four and five-plus aural reception services. Again, each level of service is shaded and corresponds to the number shown in the title block.

The proposed Class C1 facility at Hydesville will result in a fifth service to 2,722 persons. These distribution data are tabulated in Exhibit E-7.

Exhibit E-10 is a map depicting the KWEO(FM) Garberville and Hydesville contours and the distribution of 1990 U.S. Census blocks in the area.

IV. ALTERNATE CHANNELS

In the event that a suitable expression of interest is received from a party desiring to provide additional service to Hydesville, Garberville or the surrounding areas, there are several channels available within the proposed loss area, including the equivalent class Channel 279C1 that the petitioner proposes to abandon.

Exhibits E-11A through E-11J show the fully spaced areas to locate these Class A, C3 and C1 channels for compliance with the spacing requirements of § 73.207. Furthermore, an applicant could avail itself of the provisions of § 73.215 to expand the area in which an acceptably short-spaced transmitter site could be located.

V. CONCLUSION

The petitioner reaffirms his intention to apply for Channel 231C1 at Hydesville if it is allotted and, if authorized, to build the requested facilities promptly.

It is believed that all methods employed in making the determinations contained within this Engineering Statement were in accordance with applicable F.C.C. Rules and Regulations and good engineering practice.

Lawrence L. Morton, P.E.
Consulting Engineer to the Petitioner
August 24, 1994

AFFIDAVIT

State of California)
) ss:
County of Orange)

Lawrence L. Morton, being first duly sworn upon oath, deposes and says:

- That he is a qualified engineer,
- That he is a Registered Professional Engineer in the State of California,
- That he is a member of the Association of Federal Communications Consulting Engineers,
- That his qualifications are a matter of record with the Federal Communications Commission,
- That he has prepared many broadcast applications and engineering exhibits that have been filed with and granted by the Federal Communications Commission,
- That he has carried out such engineering work and that the results thereof are attached hereto and form part of this affidavit, and
- That the foregoing statement and the report regarding the aforementioned engineering work are true and correct of his own knowledge.

Date: August 24, 1994



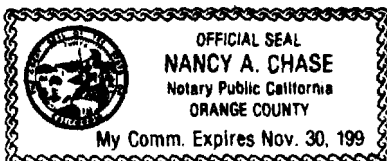
Lawrence L. Morton, P.E.

On August 24, 1994, before me, Nancy A. Chase, a Notary Public, in and for the State of California, personally appeared Lawrence L. Morton known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

My Commission expires 11/30/94



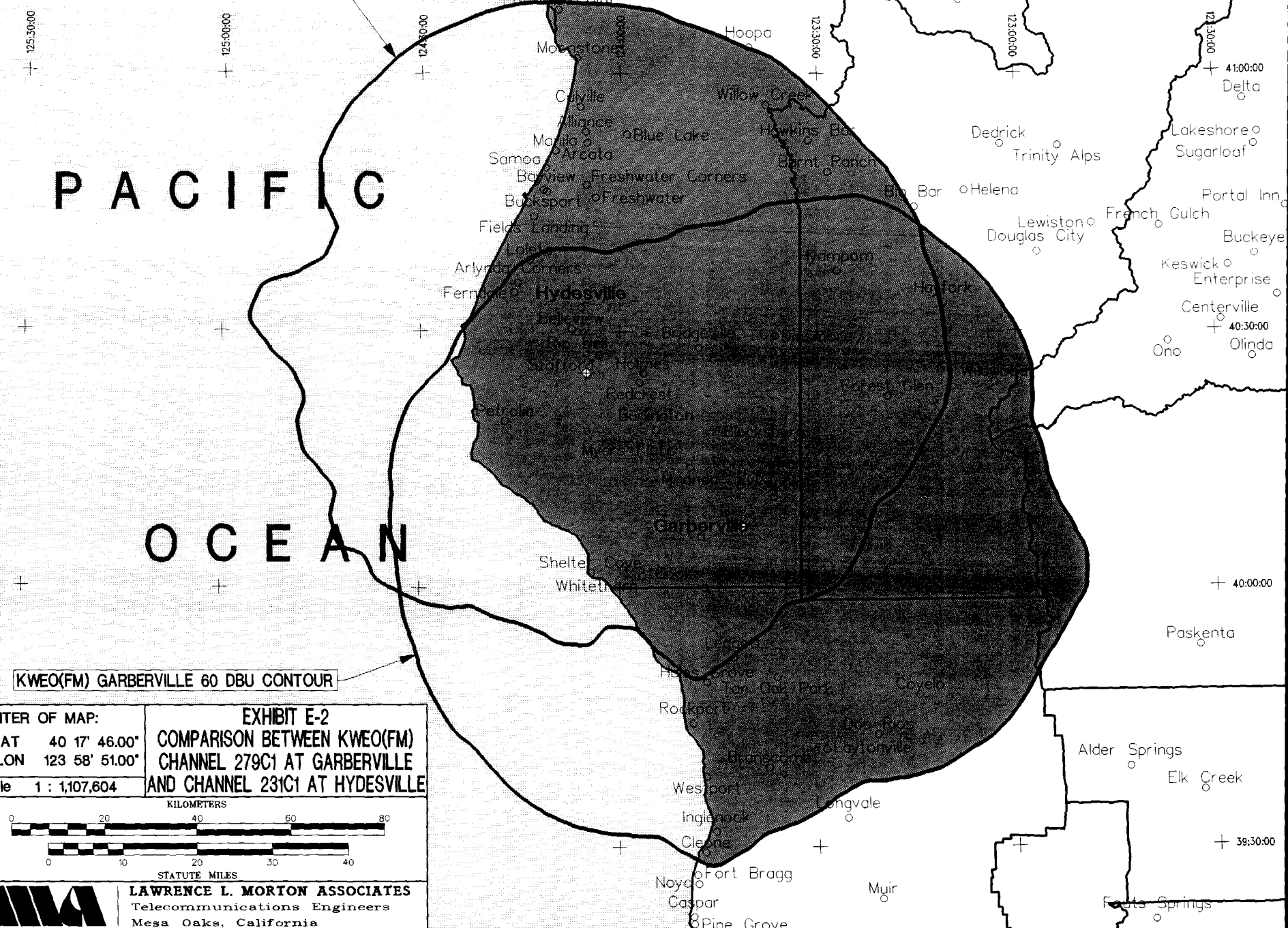
Notary Public



Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing

KWEO(FM) HYDESVILLE 60 DBU CONTOUR



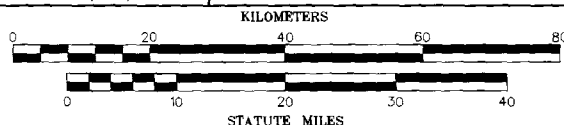
KWEO(FM) GARBERVILLE 60 DBU CONTOUR

CENTER OF MAP:

N LAT 40 17' 46.00"
W LON 123 58' 51.00"

Scale 1 : 1,107,604

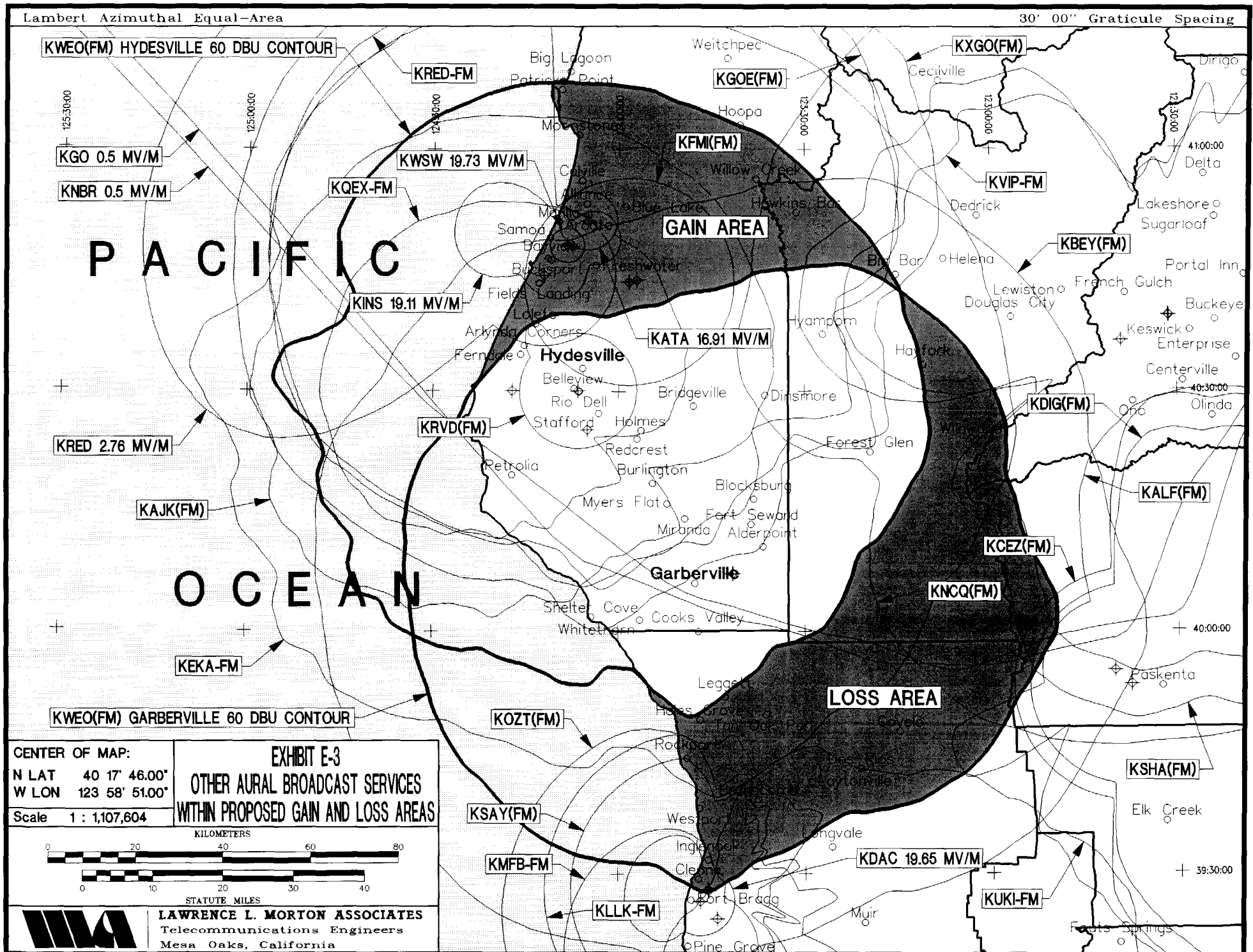
EXHIBIT E-2
COMPARISON BETWEEN KWEO(FM)
CHANNEL 279C1 AT GARBERVILLE
AND CHANNEL 231C1 AT HYDESVILLE



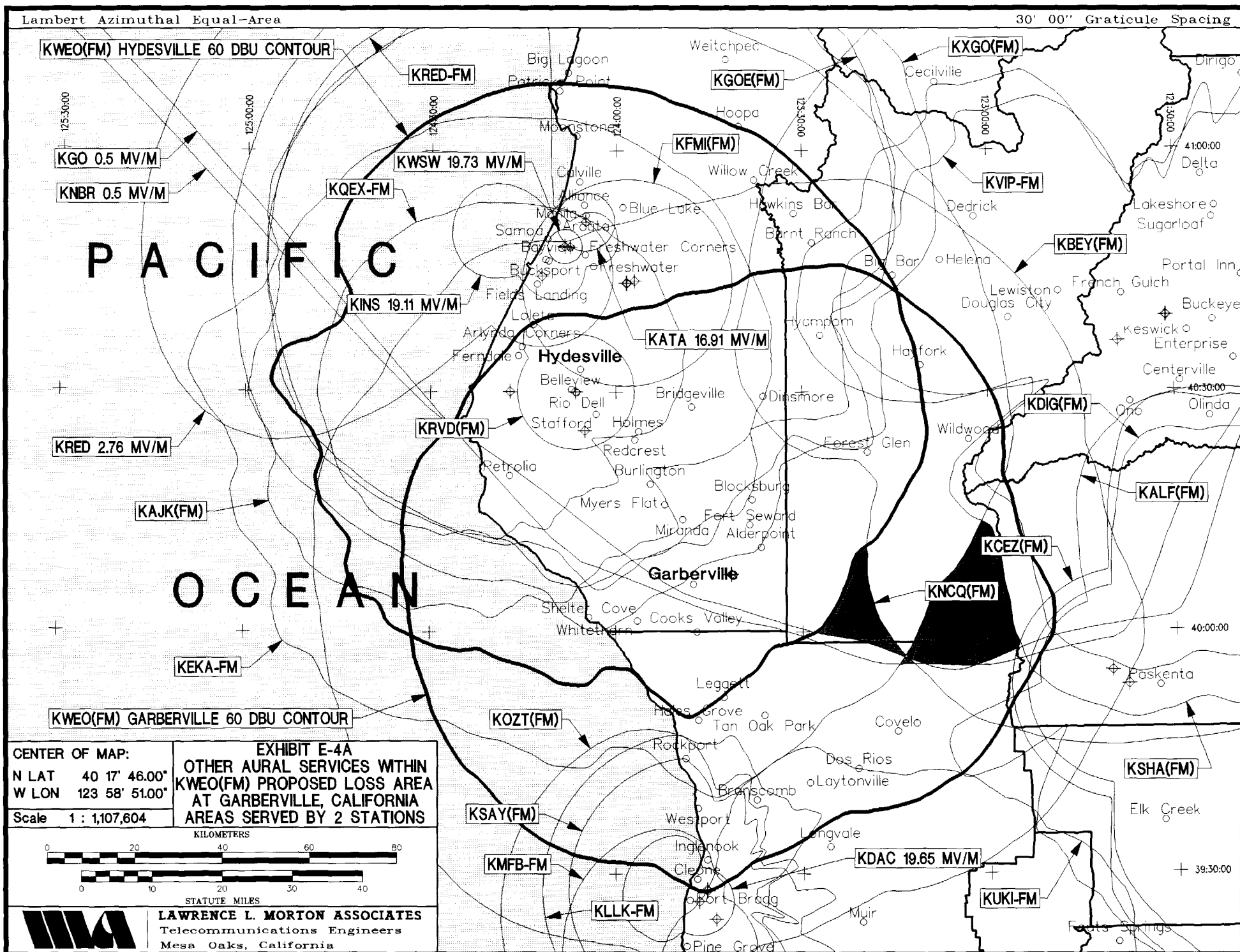
LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Mesa Oaks, California

Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing



30' 00" Graticule Spacing



Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing

KWEO(FM) HYDESVILLE 60 DBU CONTOUR

KGO 0.5 MV/M

KNBR 0.5 MV/M

PACIFIC

KRED-FM

KWSW 19.73 MV/M

KQEX-FM

KINS 19.11 MV/M

KATA 16.91 MV/M

KRVD(FM)

KRED 2.76 MV/M

KAJK(FM)

OCEAN

KEKA-FM

KWEO(FM) GARBERVILLE 60 DBU CONTOUR

KOZT(FM)

KSAY(FM)

KMFB-FM

KLLK-FM

KGOE(FM)

KFMI(FM)

KXGO(FM)

KVIP-FM

KBEY(FM)

KDIG(FM)

KALF(FM)

KCEZ(FM)

KNCQ(FM)

KSHA(FM)

KDAC 19.65 MV/M

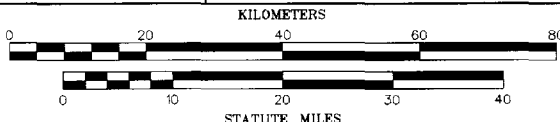
KUKI-FM

CENTER OF MAP:

N LAT 40 17' 46.00"
W LON 123 58' 51.00"

Scale 1 : 1,107,604

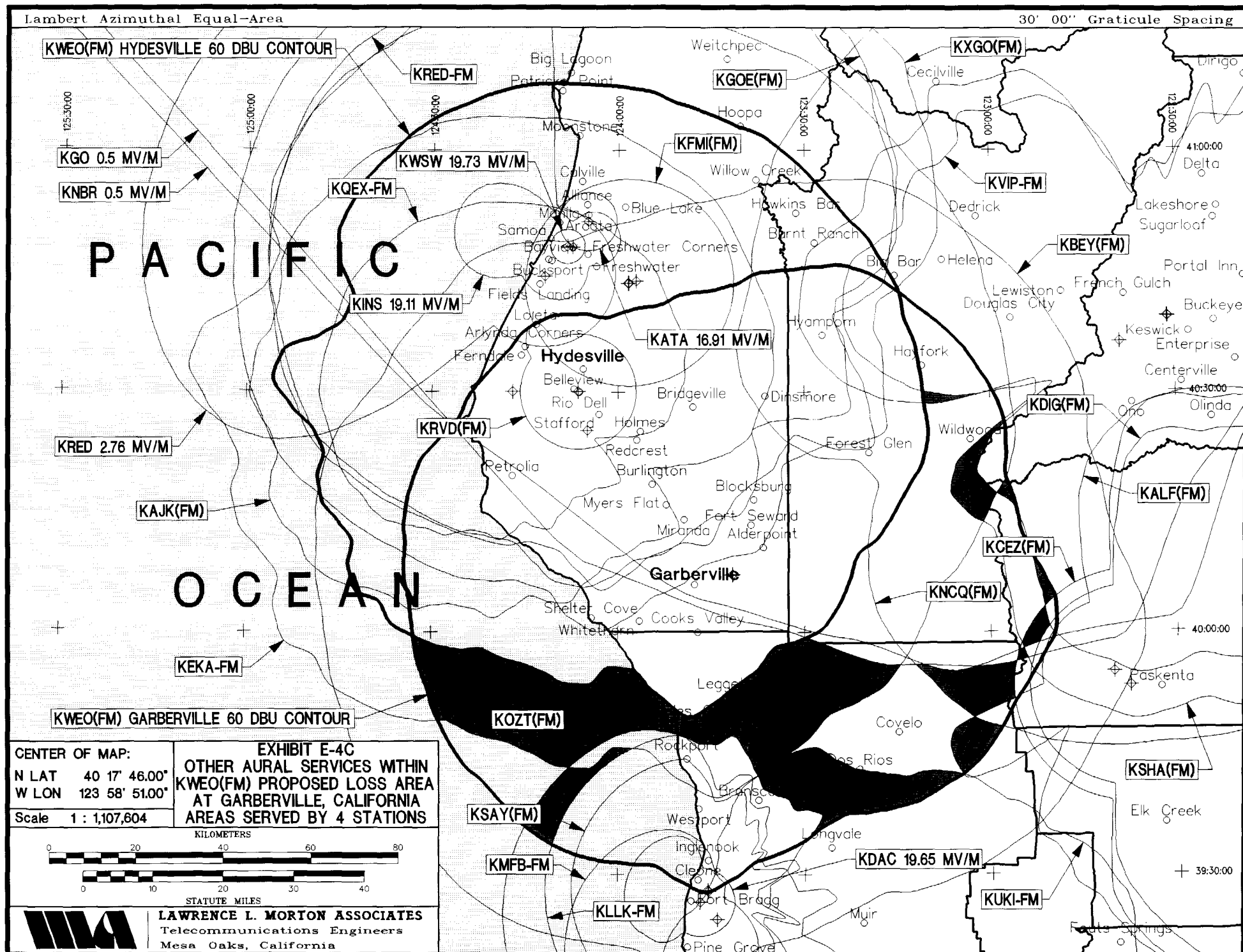
EXHIBIT E-4B
OTHER AURAL SERVICES WITHIN
KWEO(FM) PROPOSED LOSS AREA
AT GARBERVILLE, CALIFORNIA
AREAS SERVED BY 3 STATIONS



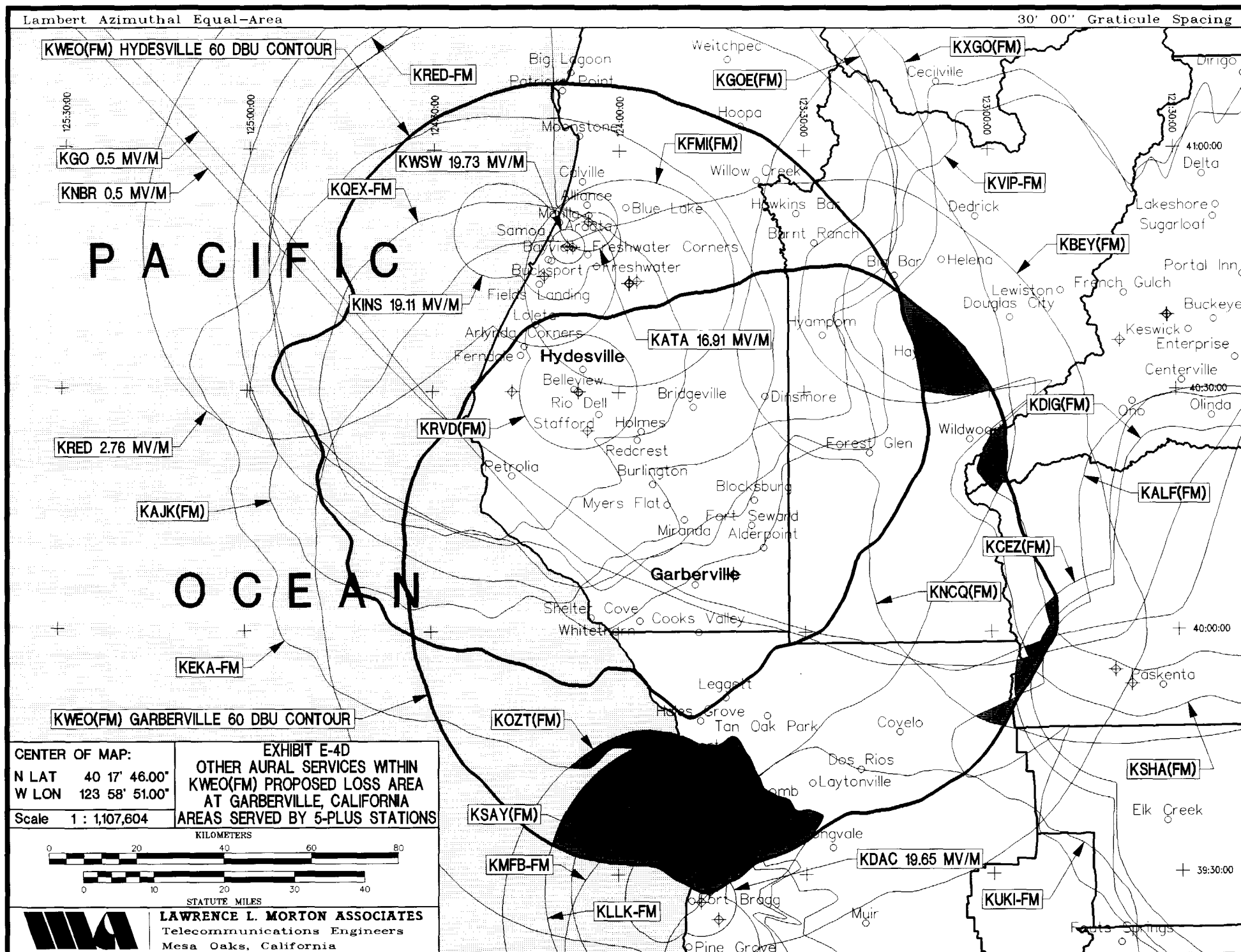
LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Mesa Oaks, California

Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing

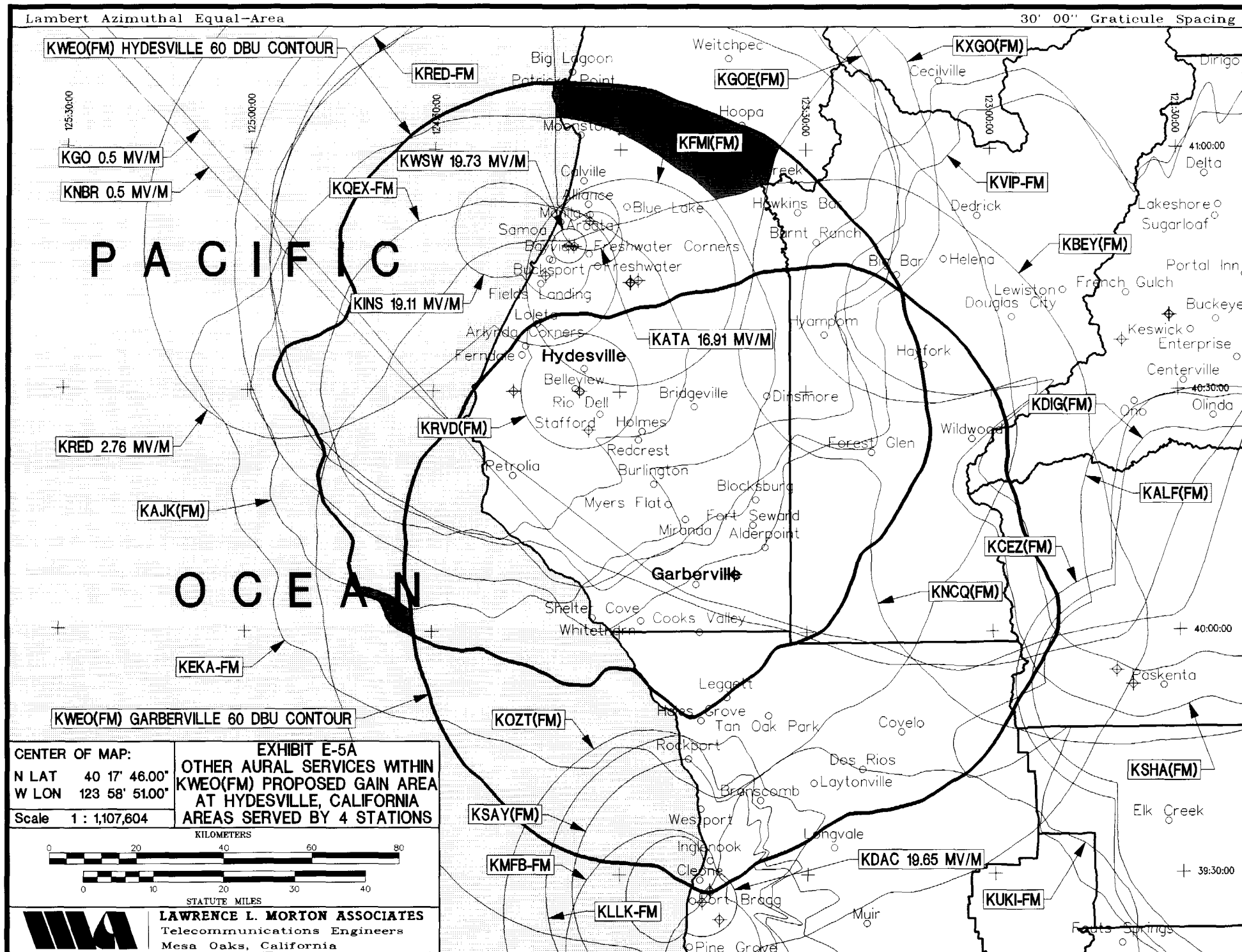


30' 00" Graticule Spacing



Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing



CENTER OF MAP:
N LAT 40 17' 46.00"
W LON 123 58' 51.00"
Scale 1 : 1,107,604

EXHIBIT E-5A
OTHER AURAL SERVICES WITHIN
KWEO(FM) PROPOSED GAIN AREA
AT HYDESVILLE, CALIFORNIA
AREAS SERVED BY 4 STATIONS



LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Mesa Oaks, California

Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing

KWEO(FM) HYDESVILLE 60 DBU CONTOUR

KRED-FM

KGOE(FM)

KXGO(FM)

KGO 0.5 MV/M
KNBR 0.5 MV/M

KWSW 19.73 MV/M

KQEX-FM

KFM(FM)

KVIP-FM

PACIFIC

KINS 19.11 MV/M

KATA 16.91 MV/M

KBey(FM)

KRED 2.76 MV/M

KAJK(FM)

OCEAN

KEKA-FM

KWEO(FM) GARBERVILLE 60 DBU CONTOUR

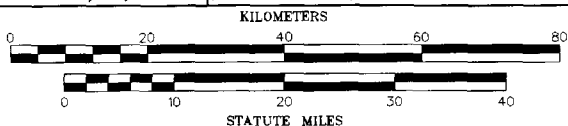
KOZT(FM)

KNCQ(FM)

KALF(FM)

CENTER OF MAP:
N LAT 40 17' 46.00"
W LON 123 58' 51.00"
Scale 1 : 1,107,604

EXHIBIT E-5B
OTHER AURAL SERVICES WITHIN
KWEO(FM) PROPOSED GAIN AREA
AT HYDESVILLE, CALIFORNIA
AREAS SERVED BY 5-PLUS STATIONS



LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Mesa Oaks, California

KSAY(FM)

KMFB-FM

KLLK-FM

KDAC 19.65 MV/M

KUKI-FM

KSHA(FM)

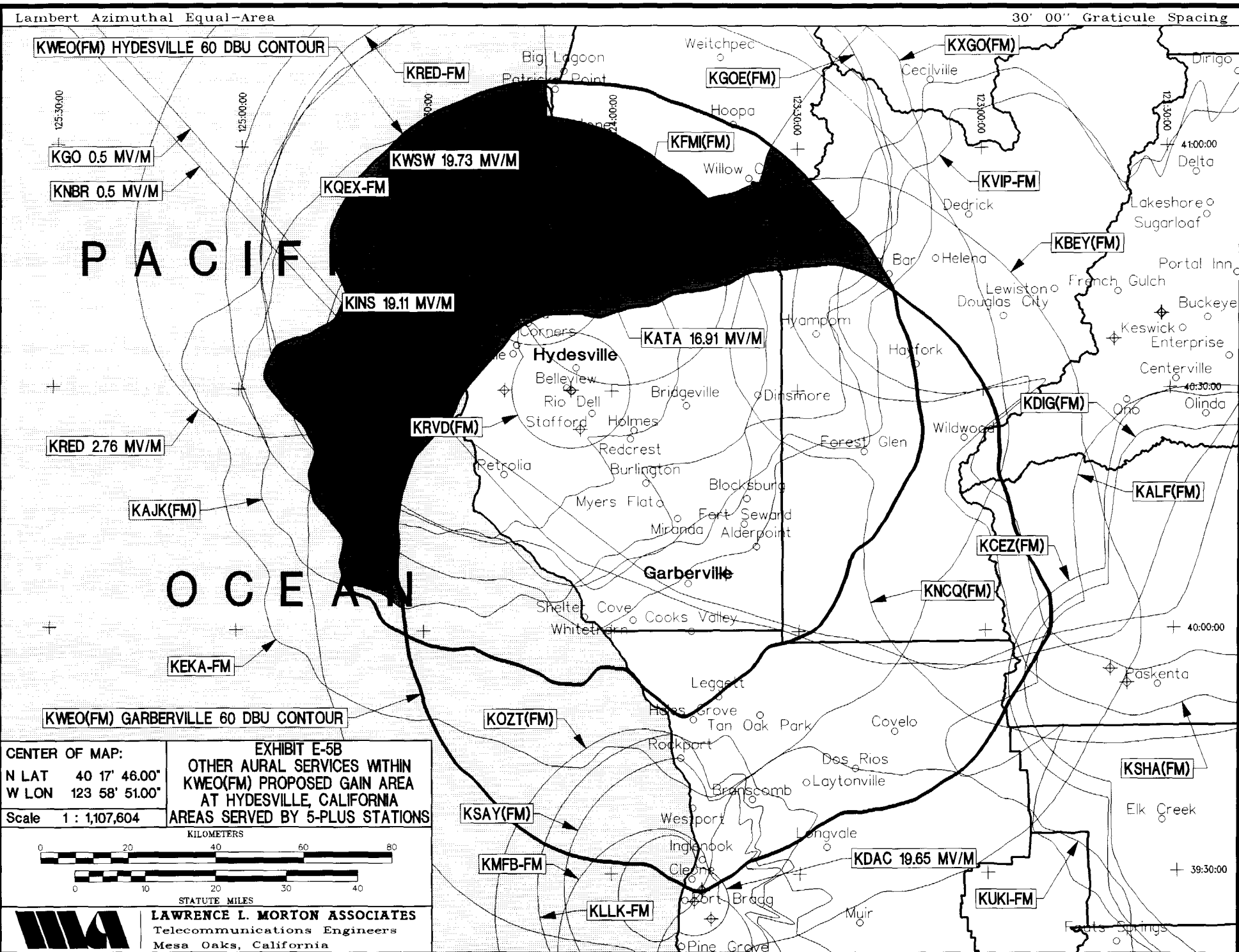


EXHIBIT E-6
OTHER AURAL SERVICES WITHIN KWEO(FM)
PROPOSED LOSS AREA AT HYDESVILLE

Brett E. Miller
August 1994

| NUMBER OF STATIONS SERVING THIS AREA | LAND AREA | | | POPULATION | |
|---|----------------------|-----------------|-------------------|---------------------------|-------------------|
| | SQUARE KILOMETERS | SQUARE MILES | % OF LOSS AREA | 1990 CENSUS POPULATION | % OF LOSS AREA |
| 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 1 | 0.34 | 0.13 | 0.00 | 0 | 0.00 |
| 2 | 667.37 | 257.67 | 9.45 | 16 | 0.17 |
| 3 | 1,956.74 | 755.50 | 27.72 | 2,128 | 22.11 |
| 4 | 2,649.82 | 1,023.10 | 37.53 | 2,758 | 28.66 |
| 5 | 842.03 | 325.11 | 11.93 | 2,554 | 26.54 |
| 6 | 565.27 | 218.25 | 8.01 | 545 | 5.66 |
| 7 | 244.96 | 94.58 | 3.47 | 252 | 2.62 |
| 8 | 125.63 | 48.51 | 1.78 | 1,325 | 13.77 |
| 9 | 7.64 | 2.95 | 0.11 | 45 | 0.47 |
| 10 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 11 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 12 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 13 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 14 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 15 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 16 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 17 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 18 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 19 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 20 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 21 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 22 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| TOTALS: | 7,059.81 | 2,725.81 | 100.0 % | 9,623 | 100.0 % |

EXHIBIT E-7
OTHER AURAL SERVICES WITHIN KWEO(FM)
PROPOSED GAIN AREA AT HYDESVILLE

Brett E. Miller
August 1994

| NUMBER OF STATIONS SERVING THIS AREA | LAND AREA | | | POPULATION | |
|---|----------------------|-----------------|-------------------|---------------------------|-------------------|
| | SQUARE KILOMETERS | SQUARE MILES | % OF GAIN AREA | 1990 CENSUS POPULATION | % OF GAIN AREA |
| 0 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 1 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 4 | 697.70 | 269.38 | 10.41 | 2,722 | 3.10 |
| 5 | 829.99 | 320.46 | 12.38 | 13,742 | 15.66 |
| 6 | 1,598.85 | 617.32 | 23.85 | 3,874 | 4.41 |
| 7 | 1,319.53 | 509.47 | 19.68 | 12,427 | 14.16 |
| 8 | 1,046.24 | 403.96 | 15.60 | 5,677 | 6.47 |
| 9 | 887.73 | 342.75 | 13.24 | 2,755 | 3.14 |
| 10 | 263.13 | 101.59 | 3.92 | 16,943 | 19.30 |
| 11 | 54.60 | 21.08 | 0.81 | 29,618 | 33.75 |
| 12 | 7.34 | 2.83 | 0.11 | 12 | 0.01 |
| 13 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 14 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 15 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 16 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 17 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 18 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 19 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 20 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 21 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 22 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| 25+ | 0.00 | 0.00 | 0.00 | 0 | 0.00 |
| TOTALS: | 6,705.10 | 2,588.85 | 100.0 % | 87,770 | 100.0 % |

EXHIBIT E-8
STATIONS PROVIDING OTHER AURAL SERVICES
WITHIN KWEO(FM) PROPOSED LOSS AREA

Brett E. Miller
August 1994

| NUMBER | CALL LETTERS | CITY | STATE | FREQUENCY |
|--------|--------------|---------------|-------|-----------|
| 1 | KSHA | REDDING | CA | 104.3 MHz |
| 2 | KUKI-FM | UKIAH | CA | 103.3 |
| 3 | KMFB-FM | MENDOCINO | CA | 92.7 |
| 4 | KEKA-FM | EUREKA | CA | 101.5 |
| 5 | KNCQ | REDDING | CA | 97.3 |
| 6 | KCEZ | CORNING | CA | 100.7 |
| 7 | KALF | RED BLUFF | CA | 95.7 |
| 8 | KBEY | GARBERVILLE | CA | 104.7 |
| 9 | KOZT | FORT BRAGG | CA | 95.3 |
| 10 | KDIG | ORLAND | CA | 106.7 |
| 11 | KVIP-FM | REDDING | CA | 98.1 |
| 12 | KSAY | FORT BRAGG | CA | 97.7 |
| 13 | KLLK-FM | FORT BRAGG | CA | 96.7 |
| 14 | KNBR | SAN FRANCISCO | CA | 680. KHz |
| 15 | KGO | SAN FRANCISCO | CA | 810 |
| 16 | KDAC | FORT BRAGG | CA | 1230 |

EXHIBIT E-9
STATIONS PROVIDING OTHER AURAL SERVICES
WITHIN KWEO(FM) PROPOSED GAIN AREA

Brett E. Miller
August 1994

RECEIVED
AUG 26 1994

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

| NUMBER | CALL LETTERS | CITY | STATE | FREQUENCY |
|--------|--------------|---------------|-------|-----------|
| 1 | KRVD | RIO DELL | CA | 107.1 MHz |
| 2 | KXGO | ARCATA | CA | 93.1 |
| 3 | KQEX-FM | FORTUNA | CA | 100.3 |
| 4 | KSHA | REDDING | CA | 104.3 |
| 5 | KEKA-FM | EUREKA | CA | 101.5 |
| 6 | KNCQ | REDDING | CA | 97.3 |
| 7 | KRED-FM | EUREKA | CA | 92.3 |
| 8 | KGOE | EUREKA | CA | 105.5 |
| 9 | KAJK-FM | FERNDALE | CA | 99.1 |
| 10 | KBey | GARBERVILLE | CA | 104.7 |
| 11 | KFMI | EUREKA | CA | 96.3 |
| 12 | KVIP-FM | REDDING | CA | 98.1 |
| 13 | KNBR | SAN FRANCISCO | CA | 680. KHz |
| 14 | KWSW | EUREKA | CA | 790 |
| 15 | KGO | SAN FRANCISCO | CA | 810 |
| 16 | KINS | EUREKA | CA | 980 |
| 17 | KATA | ARCATA | CA | 1340 |
| 18 | KRED | EUREKA | CA | 1480 |

Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing

KWEO(FM) HYDESVILLE 60 DBU CONTOUR

PACIFIC

OCEAN

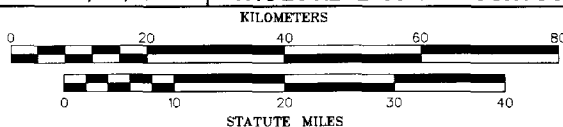
KWEO(FM) GARBERVILLE 60 DBU CONTOUR

CENTER OF MAP:

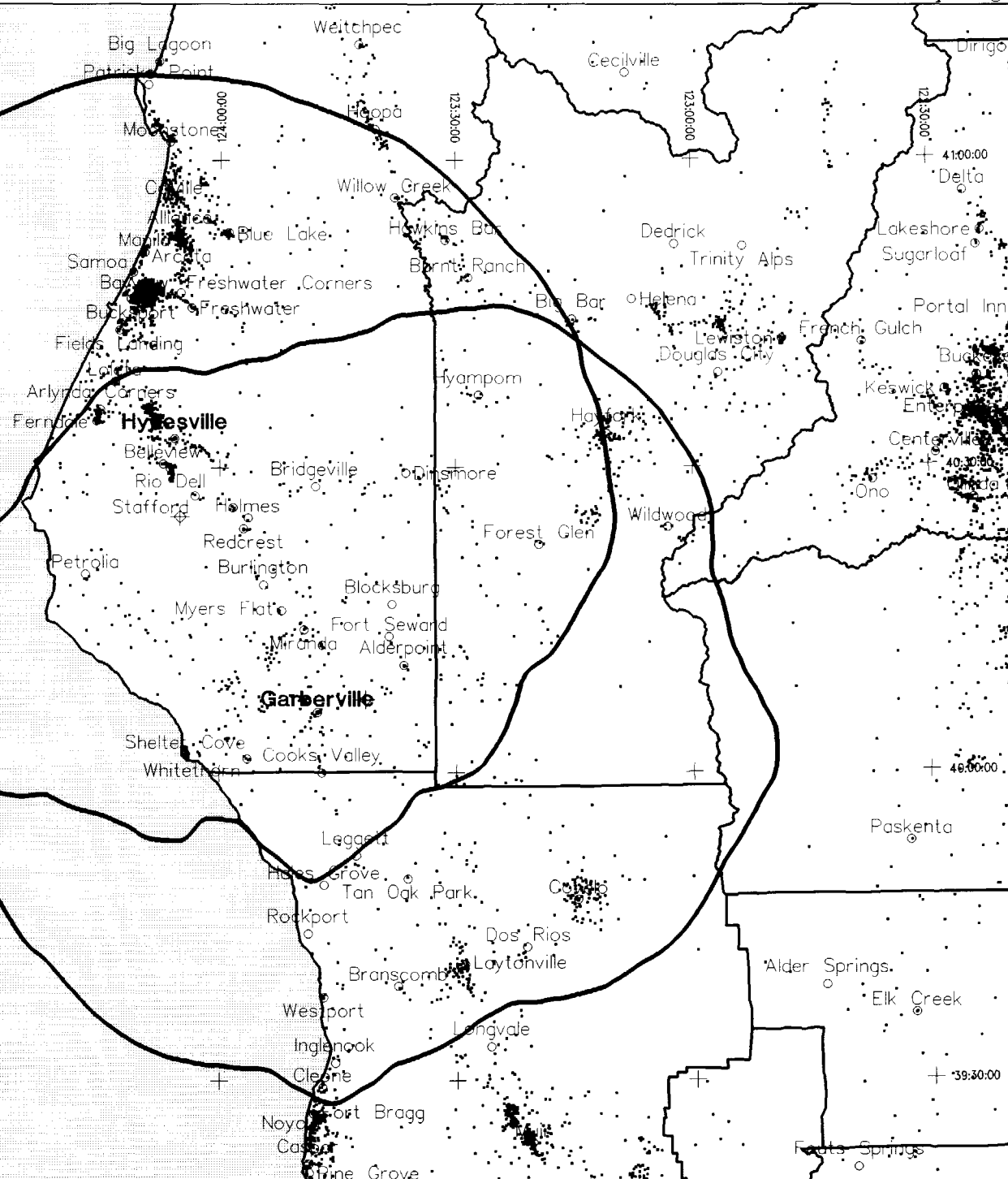
N LAT 40 17' 46.00"
W LON 123 58' 51.00"

Scale 1 : 1,107,604

EXHIBIT E-10
DISTRIBUTION OF
1990 U.S. CENSUS BLOCKS
WITHIN KWEO(FM) GARBERVILLE AND
HYDESVILLE 60 DBU CONTOURS



LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Mesa Oaks, California



Lambert Azimuthal Equal-Area

30' 00" Graticule Spacing

KWEO(FM) HYDESVILLE 60 DBU CONTOUR

PACIFIC

OCEAN

KWEO(FM) GARBERVILLE 60 DBU CONTOUR

CHANNEL 224A AREA TO LOCATE

CENTER OF MAP:

N LAT 40 17' 46.00"
W LON 123 58' 51.00"

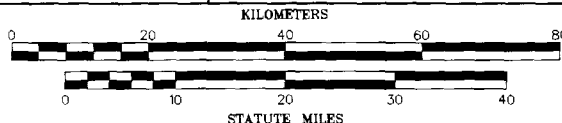
Scale 1 : 1,107,604

EXHIBIT E-11A

FM CHANNEL 224A

FULLY SPACED AREA TO LOCATE

IN VICINITY OF PROPOSED LOSS AREA



LAWRENCE L. MORTON ASSOCIATES
Telecommunications Engineers
Mesa Oaks, California

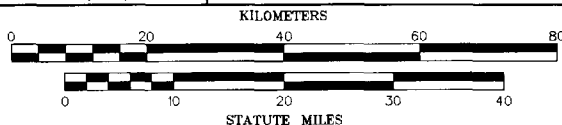
30' 00" Graticule Spacing

CHANNEL 235A AREA TO LOCATE

KWEO(FM) GARBERVILLE 60 DBU CONTOUR

EXHIBIT E-11B
FM CHANNEL 235A
FULLY SPACED AREA TO LOCATE
IN VICINITY OF PROPOSED LOSS AREA

Scale 1 : 1,107,604



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